

Appl. No. 10/629,473
Amdt. Dated June 22, 2005
Reply to Office Action of March 22, 2005
Attorney Docket No. 0115-031453

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A device for manufacturing packaging bags, comprising:

a first transport roller to pull a first film from a first feed roller, whereby the first film has first marks at a constant first interval (a),

a second transport roller independent of said first transport roller to pull a second film from a second feed roller, whereby the second film has second marks at a constant second interval (a'),

a first servomotor that is connected with the first transport roller and with a first angle-of-rotation sensor,

a second servomotor that is connected with the second transport roller and with a second angle-of-rotation sensor,

a first sensor that is located upstream of and next to the first transport roller and scans the first marks, a second sensor that is located upstream of and next to the second transport roller and scans the second marks,

a control device which is connected with the first servomotor, the second servomotor, the first sensor, the second sensor, the first angle-of-rotation sensor and the second angle-of-rotation sensor, and which controls the first servomotor and the second servomotor so that a first mark and a second mark, having passed said first and second transport roller, come to coincide and at least one first buffer for at least one of said first and second film, the at least one first buffer being located downstream of said first and second transport roller.

2. (Original) The device according to claim 1, wherein the device comprises: a first idle mechanism and a second idle mechanism that together form a narrow feed gap for the two films, said first and second idle mechanisms being located downstream of the first and second transport roller respectively and wherein the at least one first buffer is located downstream of said first and second idle mechanism.

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3. (Original) The device according to claim 2, wherein the feed gap is wider than the sum of the thickness of the two films.

4. (Currently Amended) The device as claimed in claim 1, wherein the device comprises a second buffer located downstream upstream of each of said first and second transport rollers, said ~~first and~~ buffers being used for one of said films each.

5. (Currently Amended) The device as claimed in claim 4, wherein said two ~~first~~second buffers are coupled with each other.

6. (Original) The device as claimed in claim 1, wherein said at least one first buffer is a tensioning system.

7. (Original) The device as claimed in claim 1, wherein there is one single first buffer, said single first buffer being used for both of said films.

8. (Original) The device as claimed in claim 1, wherein there is at least one third sensor to measure the supply in said at least one first buffer.

9. (Currently Amended) The device as claimed in claim 1, wherein the absolute amount of the difference between the first distanceinterval (a) and the second distanceinterval (a') is greater than 0 but less than 0.1 times the first distance (a).

10. (Previously Presented) The device as claimed in claim 1, wherein the device comprises a third and fourth buffer located upstream of the first and second transport rollers.

11. (Original) The device as claimed in claim 10, wherein the first and second supply each have a drive mechanism which is controlled by a fourth sensor to measure the supply in the corresponding second buffer.

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12. Cancelled.

13. (Currently Amended) The device as claimed in claim 42, wherein it comprises a transverse sealing device downstream of the two idle mechanisms to form a transverse seal to connect the two films with each other.

14. (Original) The device as claimed in claim 11, wherein a second transverse sealing device is located next to a guide mechanism of the films that immediately follows the first transverse sealing device.

15. (Original) The device as claimed in claim 13, wherein the transverse sealing device is the first sealing device in a path passed by the two films from said feed rollers to said at least one first buffer, wherein said transverse sealing device is located downstream of said at least one first buffer.

16. (Currently Amended) The device as claimed in claim 42, wherein the distance between the first and second sensors and the first and second idle mechanisms is adjustable.

17. (Currently Amended) The device as claimed in claim 42, further comprising a blower nozzle to blow a stream of gas into the feed gap

18. (New) A device for manufacturing packaging bags, comprising:
a first transport roller to pull a first film from a first feed roller, whereby the first film has first marks at a constant first interval (a),
a second transport roller independent of said first transport roller to pull a second film from a second feed roller, whereby the second film has second marks at a constant second interval (a'),

a first servomotor that is connected with the first transport roller and with a first angle-of-rotation sensor,

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a second servomotor that is connected with the second transport roller and with a second angle-of-rotation sensor,

a first sensor that is located upstream of and next to the first transport roller and scans the first marks,

a second sensor that is located upstream of and next to the second transport roller and scans the second marks,

a control device which is connected with the first servomotor, the second servomotor, the first sensor, the second sensor, the first angle-of-rotation sensor and the second angle-of-rotation sensor, and which controls the first servomotor and the second servomotor so that a first mark and a second mark, having passed said first and second transport roller, come to coincide and at least one first buffer for at least one of said first and second film, the at least one first buffer being located downstream of said first and second transport roller, and

wherein the device comprises: a first idle mechanism and a second idle mechanism that together form a narrow feed gap for the two films, said first and second idle mechanisms being located downstream of the first and second transport roller respectively and wherein the at least one first buffer is located downstream of said first and second idle mechanism.

19. (New) The device according to claim 18, wherein the feed gap is wider than the sum of the thickness of the two films.

20. (New) The device as claimed in claim 18, wherein the device comprises a second buffer located upstream of each of said first and second transport rollers, said second buffers being used for one of said films each.

21. (New) The device as claimed in claim 20, wherein said two second buffers are coupled with each other.

22. (New) The device as claimed in claim 18, wherein said at least one first buffer is a tensioning system.

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23. (New) The device as claimed in claim 18, wherein there is one single first buffer, said single first buffer being used for both of said films.

24. (New) The device as claimed in claim 18, wherein there is at least one third sensor to measure the supply in said at least one first buffer.

25. (New) The device as claimed in claim 18, wherein the absolute amount of the difference between the first interval (a) and the second interval (a') is greater than 0 but less than 0.1 times the first distance (a).

26. (New) The device as claimed in claim 18, wherein the device comprises a third and fourth buffer located upstream of the first and second transport rollers.

27. (New) The device as claimed in claim 26, wherein the first and second supply each have a drive mechanism which is controlled by a fourth sensor to measure the supply in the corresponding second buffer.

28. (New) The device as claimed in claim 18, wherein it comprises a transverse sealing device downstream of the two idle mechanisms to form a transverse seal to connect the two films with each other.

29. (New) The device as claimed in claim 27, wherein a second transverse sealing device is located next to a guide mechanism of the films that immediately follows the first transverse sealing device.

30. (New) The device as claimed in claim 28, wherein the transverse sealing device is the first sealing device in a path passed by the two films from said feed rollers to said at least one first buffer, wherein said transverse sealing device is located downstream of said at least one first buffer.

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31. (New) The device as claimed in claim 18, wherein the distance between the first and second sensors and the first and second idle mechanisms is adjustable.

32. (New) The device as claimed in claim 18, further comprising a blower nozzle to blow a stream of gas into the feed gap.